

Project Descriptions for August 14, 2019

Board of Trustees Meeting

Clean Water Asset Management Program Grant Commitments

Hopkinton CW-19-15

The Town of Hopkinton, with the support and expertise of Weston & Sampson Engineers, Inc., will develop and implement an Asset Management Plan that improve upon and consolidate inventory and mapping of the Town's water, wastewater, and stormwater systems. The goal is to compile a comprehensive inventory and condition assessment of all three systems' assets, which will aid the Town in coordinating efforts to maintain and rehabilitate critical infrastructure in a timely and cost-effective way, thereby reducing risk of system failure and ensuring continued, high-quality service to customers in a growing community.

Leicester Water Supply District CW-19-14

The purpose of this project is to develop Asset Management Plans (AMPs) for the sanitary sewer systems of 3 Districts: Leicester Water Supply District (LWSD), Hillcrest Sewer District (HWD) and Oxford-Rochdale Sewer District (ORSDD). Each District is a Small System with escalating infrastructure maintenance needs and accustomed to working together and sharing resources to achieve goals. The proposed AMPs are critical to help the Districts to monitor, track and assess infrastructure condition and management, as they work toward fiscal sustainability. The AMPs will help the three Districts to enhance their maintenance programs and provide for preventative maintenance rather than reactive maintenance when equipment fails.

Millis CW-19-10

This grant program will enable the Town of Millis to develop its first asset management plan for drinking water, wastewater, and stormwater assets. Through this project, the Town will: improve its asset inventory, develop an asset prioritization framework, compile an integrated capital improvements plan, train staff, and implement its new asset management software. Since 2014, the Town has partnered with Kleinfelder develop on regulatory compliance and planning projects. With its recent implementation of a Stormwater Utility, the Town now has a sustainable funding mechanism to support an asset management program for its water utilities and implement an effective asset management plan.

Oak Bluffs CW-19-11

This project will provide an Asset Management Plan (AMP) for the Town of Oak Bluff's centralized wastewater infrastructure. The AMP is a critical component of the Town's upcoming wastewater needs. The majority of the Town's wastewater infrastructure is approaching the end of its useful life and the town is in the middle of a Comprehensive Wastewater Management Planning project. The AMP will serve as a valuable tool to assist the Town in balancing the maintenance requirements of its current infrastructure with new infrastructure needs identified in the CWMP. It will also provide a mechanism for annual budget appropriations and rate system adjustments to ensure timely replacement and upgrading of its existing equipment prior to failure.

Drinking Water Asset Management Program Grant Commitment

Avon DW-19-07

The Avon DPW, is proposing to prepare an Asset Management Plan for the existing water and stormwater systems. The purpose of the plan is to update the previously completed water distribution system asset management plan by updating useful life and replacement years. The plan will also develop an inventory of valves and stormwater system infrastructure. This will allow the DPW to develop a complete inventory of all assets with replacement costs and useful life to assist the DPW in identifying areas in need of rehabilitation, repair, or replacement and prioritize improvements to make the most efficient use of the DPW's budget.

Drinking Water Commitments

Lawrence DW-19-01

This project involves replacing approximately 194 broken and malfunctioning valves ranging in size from 4-inch to 12-inch diameter that were installed in the City prior to 1975 that are expected to be discovered during the upcoming City-wide comprehensive valve exercising program being conducted on the distribution system.

Lawrence DW-19-03

This project will replace approximately 8,800 linear feet of undersized, unlined water main and 6 associated lead service lines. It will also establish redundancy for a portion of South Lawrence through installation of a 20-inch river crossing.

Community Septic Management Program Commitment

Bellingham CW-19-13

Community Septic Management Program

Clean Water Asset Management Program Grant Agreements

Hopkinton CWA-19-15

The Town of Hopkinton, with the support and expertise of Weston & Sampson Engineers, Inc., will develop and implement an Asset Management Plan that improve upon and consolidate inventory and mapping of the Town's water, wastewater, and stormwater systems. The goal is to compile a comprehensive inventory and condition assessment of all three systems' assets, which will aid the Town in coordinating efforts to maintain and rehabilitate critical infrastructure in a timely and cost-effective way, thereby reducing risk of system failure and ensuring continued, high-quality service to customers in a growing community.

Leicester Water Supply District CWA-19-14

The purpose of this project is to develop Asset Management Plans (AMPs) for the sanitary sewer systems of 3 Districts: Leicester Water Supply District (LWSD), Hillcrest Sewer District (HWD) and Oxford-Rochdale Sewer District (ORSB). Each District is a Small System with escalating infrastructure maintenance needs and accustomed to working together and sharing resources to achieve goals. The proposed AMPs are critical to help the Districts to monitor, track and assess infrastructure condition and management, as they work toward fiscal sustainability. The AMPs will help the three Districts to enhance their maintenance programs and provide for preventative maintenance rather than reactive maintenance when equipment fails.

Millis CWA-19-10

This grant program will enable the Town of Millis to develop its first asset management plan for drinking water, wastewater, and stormwater assets. Through this project, the Town will: improve its asset inventory, develop an asset prioritization framework, compile an integrated capital improvements plan, train staff, and implement its new asset management software. Since 2014, the Town has partnered with Kleinfelder develop on regulatory compliance and planning projects. With its recent implementation of a Stormwater Utility, the Town now has a sustainable funding mechanism to support an asset management program for its water utilities and implement an effective asset management plan.

Oak Bluffs CWA-19-11

This project will provide an Asset Management Plan (AMP) for the Town of Oak Bluff's centralized wastewater infrastructure. The AMP is a critical component of the Town's upcoming wastewater needs. The majority of the Town's wastewater infrastructure is approaching the end of its useful life and the town is in the middle of a Comprehensive Wastewater Management Planning project. The AMP will serve as a valuable tool to assist the Town in balancing the maintenance requirements of its current infrastructure with new infrastructure needs identified in the CWMP. It will also provide a mechanism for annual budget appropriations and rate system adjustments to ensure timely replacement and upgrading of its existing equipment prior to failure.

Clean Water Agreements**Hopedale CWP-16-34**

Hopedale's NPDES permit for the town's Wastewater Treatment Facility (WWTF) was re-issued by the US EPA and became effective on November 1, 2013. The permit has a number of new requirements, including more stringent effluent discharge limitations for Aluminum and Phosphorous. Planned improvements include the addition of preliminary screening, new secondary clarifiers, improvements to ultraviolet (UV) disinfection and sludge management improvements, which will assist in the ability to meet current NPDES permit limits and improve effluent quality from the WWTF.

Revere CW-18-19

The Illicit Connection and Sump Pump Investigation Program continuation is important for the City to enhance its progress in removing inflow from the sanitary sewer system. This program will continue the inspections of private homes and businesses to identify sources of inflow from sump pumps, roof leaders, roof drains, driveway drains, yard drains and other sources inflow.

Revere CW-18-26

The Phase X Field Investigations and Illicit Discharge Detections and Elimination (IDDE) are important planning projects for the City of Revere. These planning investigations are vital for the assessment of the City's wastewater and stormwater systems. These field investigation programs will include IDDE, CCTV of drains and sewers throughout the City, dye testing, smoke testing and private building inspections. The findings of these investigations will be incorporated in the City's future construction projects to address the detected deficiencies.

Drinking Water Asset Management Program Grant Agreement**Avon DWA-19-07**

The Avon DPW, is proposing to prepare an Asset Management Plan for the existing water and stormwater systems. The purpose of the plan is to update the previously completed water distribution system asset management plan by updating useful life and replacement years. The plan will also develop an inventory of valves and stormwater system infrastructure. This will allow the DPW to develop a complete inventory of all assets with replacement costs and useful life to assist the DPW in identifying areas in need of rehabilitation, repair, or replacement and prioritize improvements to make the most efficient use of the DPW's budget.

Drinking Water Agreements**Brockton DWP-17-10**

The City of Brockton has been working to locate, clean, and operate all crossover and mainline valves within the 24" transmission mains connecting Silver Lake Water Treatment Plant and the Brown's Crossing Pump Station (East Bridgewater). This assessment was done in response to a pipe failure within this line and the crossover valves could not be operated to isolate the pipe break. This caused a shutdown of the plant for a day and great concern for the integrity of these pipes and their valves. Through their assessment, several crossing locations have been identified that will be replaced to prevent these issues.

Dunstable DW-19-05

The project involves the construction of a new 75,000 gallon elevated steel storage tank and approximately 1,800 LF of associated water main replacement to improve system hydraulics. To optimize the existing chemical feed for pH control, the project also includes various well station improvements at the Dunstable well field site along with minor access road improvements. The water infrastructure upgrades proposed in this project are needed to meet the requirements of an Administrative Consent Order with Penalty (ACOP) that was issued by MassDEP in May 2018 (ACOP-CE-18-5D00004407).

Lawrence Emergency Drinking Water Agreement**Lawrence DWP-19-01**

This project involves replacing approximately 194 broken and malfunctioning valves ranging in size from 4-inch to 12-inch diameter that were installed in the City prior to 1975 that are expected to be discovered during the upcoming City-wide comprehensive valve exercising program being conducted on the distribution system.

Community Septic Management Program Agreement

Bellingham CWT-19-13

Community Septic Management Program